SUBJECT INDEX TO VOLUME 37, 1991

[A]

acid mine drainage 35
activated sludge 57
Ag^+ 167
Ar-incubation 371
article 59 of the international code of botanical nomenclature 131
aspartate aminotransferase 315, 395
Aspergillus and associated teleomorphs 289

[B]

Bacillus classification 225
Bacillus identification 225
bacterial community analysis 57
bacterial leaching 1
ballistosporous yeasts 175
basidiomycetous yeasts 131
batch culture 215
bioextraction 1
bioflocculant 447
Brevibacterium sp. 403

[C]

Candida fragi sp. nov. 423
Candida kefir 389
cellulases from thermophilic bacilli 25
Candida valida 389
cell wall protein 49
cellulases from mixed culture 25
chemotaxonomy 331
chitin 267
chlorophyll fluorescence 167
chromate reduction 519
Clostridium difficile, S layer 455
Clostridium tetani 49
continuous culture 133, 215
copper 363
crude whey 389
cytotoxin 467

[D]

Debaryomyces, partial RNA sequences of .. 277
defaunation 439

[E]

endo-cellulase 249
endogenous acetylene reducing activity 371
Enterobacter cloacae 519
enterotoxin production of *Clostridium perfringens* 341
enterotoxin, sporulation and inclusion body formation of *Clostridium perfringens* 341
Erythrobasidium hasegawae 131
Erythrobasidium hasegawianum sp. nov. .. 31
Escherichia coli, expression of chromosome-coded heterologous rRNA gene in 141
exopolymer 363

[F]

fatty acid desaturation 355
fructose 133

[G]

gas chromatography/mass spectrometry (GC/MS) 379
GC/MS or gas chromatography/mass spectrometry 147
genetically engineered microorganism 85
glucose 133
glycoprotein 93

[H]

Haloferax mediterranei 315, 395
halophilic enzyme 315, 395
heavy metals 519
hemolysin 467
high performance liquid chromatography (HPLC) 379
Holleya, partial base sequences of 18S and 26 S rRNAs 199
Holleya, phylogeny of 199
HPLC or high-performance liquid chromatography 147
hybrid ribosomes 141
hydrogen-oxidizing bacteria 431
hydrolysis 267
hydroxypolyamine 431

[I]

identification of *Bacillus* sp. 225
intracellular cation concentration 403
intracellular pH 415
iron-oxidizing bacteria 35
isolated heterocysts 371
isoprenoid quinone profiles 57

[K]

K^+ efflux 403
β-ketoadipate pathway 147, 379
Kitasatosporia 261
Kockovaella gen. nov. 175
Kockovaella imeperatae sp. nov. 175
Kockovaella thailandica sp. nov. 175
Kurtzmanomyces tardus, partial RNA sequences of 321

[M]

medium-chain fatty acids 439
Megasphaera elsdenii 121, 415
membrane potential 415
Metschnikowia, phylogeny of 199
minimum a_w for growth 111
mode of spore formation 261
molecular phylogeny 289
Myrothecium verrucaria 267

[N]

Nematospora, phylogeny of 199
new species of the genus *Candida* 423
new yeast genus 175
new yeast species from strawberry 423
Ni^{2+} 167
nitrogen fixiation 331
nitrogen-fixing bacteria 9
nitrogen-fixing cyanobacterium *Anabaena* .. 371
Nocardia amarae 447
Nostoc muscorum 167
numerical analysis 57
numerical classification of *Bacillus* sp. 225
numerical identification of *Bacillus* sp. 225
numerical taxonomy of *Bacillus* sp. 225

[P]

partial base sequences, of 18 S and 26 S rRNAs of *Holleya*, *Metschnikowia* and *Nematospora* 199
partial base sequences, of 26 S and 18 S rRNAs of *Schwanniomyces* 523
partial base sequences, of 26 S and 18 S rRNAs of *Torulaspora* and *Zygosaccharomyces* 503
partial RNA sequences, of *Debaryomyces*, *Torulaspora* and *Yamadazyma* 277
partial RNA sequences, of *Kurtzmanomyces tardus* 321
Penicillium and associated teleomorphs 289
phenol 379
phenol degradation 147
phenotypical classification of *Bacillus* sp. .. 225
L-phenylalanine, enzymatic production with *Citrobacter freuindii* 71
L-phenylalanine, production by transaminase reaction 71
photosynthetic electron transport 167
phototrophic purple nonsulfur bacteria 331
phylogenetic tree 289
phylogeny, of *Debaryomyces* 277
phylogeny, of *Kurtzmanomyces tardus* 321
phylogeny, of *Schwanniomyces* 523
Physarum polycephalum 93
plant immunization against bacterial diseases 495
plasma membrane 93
polyamine 431
Proteus vulgaris, cloning and expression of *rrn* operons of 141
Protomonas-like bacteria 331
Pseudomonas 431
Pseudomonas sp. strain E-3 355
psychrotrophic bacterium 355
purification-cellulase 249

[R]

reductant supply 371
regulatory properties 395
Rhodopseudomonas palustris 331
Rhodotorula hasegawae 131
Rhodotorula rubra 147, 379
18S ribosomal RNA partial sequences 289
role of acetate 121
rumen bacteria 121, 415
rumen protozoa 439

[S]

S layer 49
Saccharomyces cerevisiae 133, 215
saline stability 315
SCP 267
Schwanniomyces, phylogeny of 523

slime 93
soil aggregate 515
soil microhabitat 515
soil protozoa 515
spectrophotometric analysis 309
submerged spore 261
sucrose 215
sugar-tolerance 111
sulfur-oxidizing bacteria 35
synergetics 447

[T]
taxonomy 309
thermophile 431
thermophilic cellulase 25
Thiobacillus ferrooxidans 1
Torulaspora globosa, partial RNA sequences of 277
Torulaspora, partial sequences of 26S and 18 S rRNAs 503
Torulaspora, phylogeny of 503
transaminase, production of L-phenylalanine by 71
Trichoderma reesei 249

[U]
unsaturated fatty acid 355
urea utilization by cyanobacter 325

[V]
Vibrio cholerae non-O1 467

[W]
wastewater treatment 519

[Y]
Yamadazyma 309
Yamadazyma philogaea, partial RNA sequences of 277
yeast 133, 215, 309
yeast biomass 389
yeasts from high sugar foods 111

[Z]
zinc 1
zinc flotation tailings 1
Zygosaccharomyces, partial sequences of 26S and 18S rRNAs 503
Zygosaccharomyces, phylogeny of 503
Zygosaccharomyces rouxii 111